CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/NGVP/WNo.05/CEMENT/2014-15

Date: 21.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. Ningana Gowda V. Patil,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to road and drains at Srirampura in Ward No. 05 in Chokkanahalli Village limits, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-PMT/44/2014-15 Dated: 18.07.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	475 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/NGVP/WNo.05/SAND/2014-15 : 21.07.2014

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Ningana Gowda V. Patil,** Contractor, Bangalore.

Name of Work : Improvements to road and drains at Srirampura inward No. 05 in Chokkanahalli Village limits, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/44/2014-15 Dated: 18.07.2014

Date of Testing : 21.07.2014

Material : Fine Aggregates Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	92	4.60	4.60	95.4	90-100
2.36	253	12.65	17.25	82.8	75-100
1.18	492	24.60	41.85	58.2	55-90
600 Micron	426	21.30	63.15	36.9	35-59
300 Micron	512	25.60	88.75	11.3	8-30
150 Micron	154	7.70	96.45	3.6	0-10

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/NGVP/WNo.05/AGG/2014-15 : 21.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Ningana Gowda V. Patil,** Contractor, Bangalore.

Name of Work : Improvements to road and drains at Srirampura inward No. 05 in Chokkanahalli Village limits, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/44/2014-15 Dated: 18.07.2014

Date of Testing : 21.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25100**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	972	3.87	3.87	96.13	95-100
20	16324	65.04	68.91	31.09	30-70
10	4986	19.86	88.77	11.23	10-35
4.75	2481	9.88	98.66	1.34	0-5

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Job No.: CTCE/BBMP/NGVP/WNo.05/AGG/2014-15 : 21.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Ningana Gowda V. Patil,** Contractor, Bangalore.

Name of Work : Improvements to road and drains at Srirampura inward No. 05 in Chokkanahalli Village limits, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/44/2014-15 Dated: 18.07.2014

Date of Testing : 21.07.2014

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Tabel - 1

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	195	3.90	3.9	96.10	95-100
10	3325	66.50	70.4	29.60	25-55
4.75	1273	25.46	95.9	4.14	0-10

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/NGVP/WNo.05/STEEL/2014-15 Date: 28.07.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Ningana Gowda V. Patil,** Contractor, Bangalore.
Name of the work	:	Improvements to road and drains at Srirampura in Ward No. 05 in Chokkanahalli Village limits, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-PMT/44/2014-15 Dated: 18.07.2014
Date of Test	:	28.07.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.35	O.K	O.K

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Job No.: CTCE/BBMP/NGVP/WNo.05/STEEL/2014-15 Date: 28.07.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Ningana Gowda V. Patil,** Contractor, Bangalore.
Name of the work	:	Improvements to road and drains at Srirampura in Ward No. 05 in Chokkanahalli Village limits, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-PMT/44/2014-15 Dated: 18.07.2014
Date of Test	:	28.07.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	558	13.50	O.K	O.K

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Job No.: CTCE/BBMP/NGVP/WNo.05/CUBE/2014-15

27.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Ningana Gowda V. Patil,** Contractor, Bangalore.
Name of the work	: Improvements to road and drains at Srirampura in Ward No. 05 in Chokkanahalli Village limits, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/44/2014-15 Dated: 18.07.2014
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2014	27.08.2014	8.095	476.8	21.19
2	30.07.2014	27.08.2014	8.128	493.4	21.93
3	30.07.2014	27.08.2014	8.217	508.2	22.59

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Job No.: CTCE/BBMP/NGVP/WNo.05/CUBE/2014-15

29.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Ningana Gowda V. Patil,** Contractor, Bangalore.
Name of the work	: Improvements to road and drains at Srirampura in Ward No. 05 in Chokkanahalli Village limits, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/44/2014-15 Dated: 18.07.2014
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.08.2014	29.08.2014	8.118	482.6	21.45
2	01.08.2014	29.08.2014	8.167	498.7	22.16
3	01.08.2014	29.08.2014	8.236	515.7	22.92

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